

PTO/SB/08A (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Collection of information unless it contains a valid OMB control number.



Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

**Compl te if Kn wn**

Application Number	10/604,240
--------------------	------------

<b>Filing Date</b>	07/03/2003
--------------------	------------

First Named Inventor	Mark Stewart
----------------------	--------------

Group Art Unit	2856
----------------	------

Examiner Name	Unassigned
---------------	------------

Attorney Docket Number	1372.47
------------------------	---------

## U.S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

[illegible]

Examiner  
Signature

Date Considered

23/mar 2004

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (10-96)  
Approved for use through 10/31/99, OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/604,240		
		Filing Date	07/03/2003		
		First Named Inventor	Mark Stewart		
		Group Art Unit	2856		
		Examiner Name	Unassigned		
Sheet	2	of	2	Attorney Docket Number	1372.47

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Dr	2	The Neutron Log; www.logwell.com/tech/nuclear/neutron_log.html; 5/20/2003	
Dr	3	The Gamma Ray Log; www.logwell.com/tech/nuclear/gamma_ray_log.html; 5/20/2003	
Dr	4	KRAM ET AL.; DNAPL Characterization Methods and Approaches Part1: Performance Comparisons (NO DATE)	
Dr	5	SHINN MITCHELL ET AL.; Development of a CPT Deployed Probe for In Situ Measurement of Volumetric Soil Moisture Content and Electrical Resistivity; 12/31/1997	
Dr	6	Innovative Technology Summary Cone Penetrometer; www.gnet.org/archive/4569.html; 5/21/2003	
Dr	7	STEWART; A Geophysical Method for Quantification of Dense Non-Aqueous Phase Liquids (DNAPL) in the Subsurface (NO DATE)	
Dr	8	Direct Push Technologies (NO DATE)	
Dr	9	Bulk Density Determination; www.geology.iupui.edu/research/SoilsLab/procedures/bulk/; 5/19/2003	

Examiner Signature		Date Considered	23 / June 2004
-----------------------	---	--------------------	----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.